NC/QC/YD-W-1/2018-19/BJ-C1 Date: 14-02-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Improvements to main road and cross roads at Basaveshwara nagara and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains and providing missing slabs and kerbs at NES office road (Mini vidhanasouda road) in kempegowda ward no-01.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Venkategowda. G.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	167 min	Shall not be less than 30 min
2	Final setting time	278 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.03 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.18 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	29.21 N/Sq mm	Shall not be less than 27 N/Sqmm

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For Newzen Consultants Bangalore

Proprietor

NC/QC/YD-W-1/2018-19/BJ-PCC1 Date: 14-02-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Improvements to main road and cross roads at Basaveshwara nagara and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains and providing missing slabs and kerbs at NES office road (Mini vidhanasouda road) in kempegowda ward no-01.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Venkategowda. G.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	63.45	0 -20	30- 70
10mm	26.78	0 -5	10- 35
4.75mm	3.23	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	96.54	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	83.67	60-95	75-100	85-100	
01.18	64.89	30-70	55-90	75-100	
600.mic	50.56	15-34	35-59	60-79	
300.mic	23.68	5-20	8-30	12-40	
150.mic	6.89	0-10	0-10	0-10	

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Page No. 1/1,

For Newzen Consultants Bangalore

Proprietor

NC/QC/YD-W-1/2018-19/BJ-CA1 Date: 18-02-2019

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.

{Project*: Improvements to main road and cross roads at Basaveshwara nagara and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains and providing missing slabs and kerbs at NES office road (Mini vidhanasouda road) in kempegowda ward no-01.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Venkategowda. G.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	97.20	85-100	90 - 100
10 mm	44.65	0 - 20	25 - 55
4.75 mm	6.35	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	22.53%	Not to exceed 25 %
2.	Crushing value	25.19 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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NC/QC/YD-W-1/2018-19/BJ-S1 **Date: 18-02-2019**

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 8 and 10 mm **TMT Steel.** & 6mm

{Project*: Improvements to main road and cross roads at Basaveshwara nagara and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains and providing missing slabs and kerbs at NES office road (Mini vidhanasouda road) in kempegowda ward no-01.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Venkategowda. G.

TABLE – 1

SL No	Details	For 8 mm		For 10 mm	
		Test Results	Min Req. as per IS 1786-2008	Test Results	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**8.0 mm**	8.0 mm	**10.0 mm**	10.0 mm
02	Observed Wt/m Length **Kg/m**	**0.394**	0.363	**0.619**	0.567
03	Proof stress/Yield stress, fy , **N/mm^2**	**527.0**	500.0	**543.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**22.30**	16.00	**21.40**	16.00
06	Ultimate Tensile Strength **N/mm^2**	**619.0**	565.0	**604.0**	565.0

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Page No. 1/1,

For Newzen Consultants Bangalore

Proprietor

NC/QC/YD-W-1/2018-19/BJ-CB2 Date: 02-03-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Improvements to main road and cross roads at Basaveshwara nagara and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains and providing missing slabs and kerbs at NES office road (Mini vidhanasouda road) in kempegowda ward no-01.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Venkategowda. G.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	23-02-19	02-03-19	07	22500	390	17.33	17.33
	002	"	"	"	"	385	17.11	
	003	"	"	"	"	395	17.56	

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NC/QC/YD-W-1/2018-19/BJ-CB4 Date: 07-03-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Improvements to main road and cross roads at Basaveshwara nagara and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains and providing missing slabs and kerbs at NES office road (Mini vidhanasouda road) in kempegowda ward no-01.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Venkategowda. G.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	28-02-19	07-03-19	07	22500	390	17.33	16.96
	002	"	"	"	"	385	17.11	
	003	"	"	"	"	370	16.44	

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NC/QC/YD-W-1/2018-19/BJ-CB1A Date: 20-03-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to main road and cross roads at Basaveshwara nagara and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains and providing missing slabs and kerbs at NES office road (Mini vidhanasouda road) in kempegowda ward no-01.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Venkategowda. G.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	20-02-19	20-03-19	28	22500	515	22.89	22.89
	002	"	"	"	"	510	22.67	
	003	"	"	"	"	520	23.11	

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NC/QC/YD-W-1/2018-19/BJ-CB3A

Date: 26-03-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to main road and cross roads at Basaveshwara nagara and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains and providing missing slabs and kerbs at NES office road (Mini vidhanasouda road) in kempegowda ward no-01.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Venkategowda. G.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	26-02-19	26-03-19	28	22500	505	22.44	22.67
	002	"	"	"	"	510	22.67	
	003	"	"	"	"	515	22.89	

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NC/QC/YD-W-1/2018-19/BJ-CB4A

Date: 28-03-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to main road and cross roads at Basaveshwara nagara and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains and providing missing slabs and kerbs at NES office road (Mini vidhanasouda road) in kempegowda ward no-01.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Venkategowda. G.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	28-02-19	28-03-19	28	22500	530	23.56	**23.63**
	002	"	"	"	"	540	24.00	
	003	"	"	"	"	525	23.33	

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NC/QC/YD-W-1/2018-19/BJ-PCC2 Date: 05-03-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Improvements to main road and cross roads at Basaveshwara nagara and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains and providing missing slabs and kerbs at NES office road (Mini vidhanasouda road) in kempegowda ward no-01.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Venkategowda. G.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	59.45	0 -20	30- 70
10mm	33.10	0 -5	10- 35
4.75mm	3.80	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	98.25	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	84.95	60-95	75-100	85-100	
01.18	66.10	30-70	55-90	75-100	
600.mic	46.70	15-34	35-59	60-79	
300.mic	19.35	5-20	8-30	12-40	
150.mic	6.80	0-10	0-10	0-10	

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NC/QC/YD-W-1/2018-19/BJ-CB5 **Date: 15-03-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Improvements to main road and cross roads at Basaveshwara nagara and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains and providing missing slabs and kerbs at NES office road (Mini vidhanasouda road) in kempegowda ward no-01.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Venkategowda. G.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	08-03-19	15-03-19	07	22500	540	24.00	**23.63**
	002	"	"	"	"	525	23.33	
	003	"	"	"	"	530	23.56	

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NC/QC/YD-W-1/2018-19/BJ-CB6A

Date: 09-04-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to main road and cross roads at Basaveshwara nagara and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains and providing missing slabs and kerbs at NES office road (Mini vidhanasouda road) in kempegowda ward no-01.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Venkategowda. G.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	12-03-19	09-04-19	28	22500	725	32.22	32.30
	002	"	"	"	"	720	32.00	
	003	"	"	"	"	735	32.67	

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NC/QC/YD-W-1/2018-19/BJ-K1

Date: 02-03-2019

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Improvements to main road and cross roads at Basaveshwara nagara and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains and providing missing slabs and kerbs at NES office road (Mini vidhanasouda road) in kempegowda ward no-01.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Venkategowda. G.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.34	22.80	22.55	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.26	21.75		
3	003	3.36	23.10		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.10	4.70
2	002	4.89	
3	003	5.11	

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NC/QC/DD-NG/2018-19/G1

Date: 18-03-2019

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (with close graded materials, Grade-II) mix.
{Project*: Improvements to main road and cross roads at Basaveshwara nagara and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains and providing missing slabs and kerbs at NES office road (Mini vidhanasouda road) in kempegowda ward no-01.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Venkategowda. G.

TEST RESULTS

1. **Gradation Test:**

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
26.50	97.88	70-100
9.50	73.58	50-80
4.75	55.25	40-65
2.36	46.31	30-50
0.425	14.23	10-15
0.075	3.86	<5

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NC/QC/DD-NG/2018-19/W1 Date: 21-03-2019

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

{Project*: Improvements to main road and cross roads at Basaveshwara nagara and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains and providing missing slabs and kerbs at NES office road (Mini vidhanasouda road) in kempegowda ward no-01.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Venkategowda. G.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	98.66	95-100
26.50	---	-
22.40	69.33	60-80
11.20	52.61	40-60
4.75	32.88	25-40
2.36	21.29	15-30
0.600	16.25	8-22
0.075	3.89	0-5

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EMAIL:

NC/QC/DD-NG/2018-19/W2 Date: 23-03-2019

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to main road and cross roads at Basaveshwara nagara and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains and providing missing slabs and kerbs at NES office road (Mini vidhanasouda road) in kempegowda ward no-01.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Venkategowda. G.

TEST RESULTS

1. Gradation Test:
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	97.86	95-100
26.50	---	-
22.40	68.36	60-80
11.20	52.56	40-60
4.75	34.59	25-40
2.36	21.23	15-30
0.600	16.69	8-22
0.075	3.82	0-5

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EMAIL:newzen576@gmail.com

NZ/QC/YPD/T&F-W4/2018-19/P3-DS1 Date: 12-04-2019

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.

{Project*: Improvements to main road and cross roads at Basaveshwara nagara and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains and providing missing slabs and kerbs at NES office road (Mini vidhanasouda road) in kempegowda ward no-01.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Venkategowda. G.

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1246**	900
2	Marshall Flow at 60°C, mm.	**3.51**	2.0 - 4.0

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K.R
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Proprietor

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NZ/QC/YPD/T&F-W4/2018-19/P3-DS2 Date: 12-04-2019

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.

{Project*: Improvements to main road and cross roads at Basaveshwara nagara and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains and providing missing slabs and kerbs at NES office road (Mini vidhanasouda road) in kempegowda ward no-01.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Venkategowda. G.

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1196**	900
2	Marshall Flow at 60°C, mm.	**3.14**	2.0 - 4.0

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NZ/QC/YPD/T&F-W4/2018-19/P3-CB1 Date: 08-04-2019

1. TEST REPORT ON COARSE AGGREGATE:

Sub: Testing of Coarse Aggregate used in Bituminous Concrete.
{Project*: Improvements to main road and cross roads at Basaveshwara nagara and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains and providing missing slabs and kerbs at NES office road (Mini vidhanasouda road) in kempegowda ward no-01.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Venkategowda. G.

TABLE 1.1 ;

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	23.29 %	Not more than 24.00 %
2.	Combined Flakiness and Elongation index, %	25.56 %	Not more than 35.0 %
3.	Water absorption, %	0.37 %	Not more than 2.0 %
4.	Specific gravity	2.59	-------
5.	Soundness	5.38 %	Max. 12 % in Sodium Sulphate

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Page No. 1/1,

For Newzen Consultants Bangalore

Proprietor

NZ/QC/YPD/T&F-W4/2018-19/P3-BC2 Date: 12-04-2019

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.
{Project*: Improvements to main road and cross roads at Basaveshwara nagara and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains and providing missing slabs and kerbs at NES office road (Mini vidhanasouda road) in kempegowda ward no-01.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Venkategowda. G.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.41 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	100	100
13.2	96.55	90-100
9.5	84.87	70-88
4.75	66.23	53-71
2.36	55.31	42-58
1.18	43.76	34-48
0.600	33.49	26-38
0.300	25.98	18-28
0.150	17.23	12-20
0.075	7.90	4-10

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NZ/QC/YPD/T&F-W4/2018-19/P3-BS2 Date: 13-04-2019

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.

{Project*: Improvements to main road and cross roads at Basaveshwara nagara and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains and providing missing slabs and kerbs at NES office road (Mini vidhanasouda road) in kempegowda ward no-01.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Venkategowda. G.

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1284**	900
2	Marshall Flow at 60°C, mm.	**3.39**	2.0 - 4.0

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